# ECS Configuration Change Request

| 1. Originator | 2. Log Date: | 3. CCR #: | 4. Rev: | 5. Tel: | 6. Rm #: | 7. Dept. |
|---|---|---|---|---|---|---|
| Byron V. Peters | 2/10/03 | 03-0092 | - | 301/883-4077 | 2013 | SE |

**8. CCR Title:** Test F-Secure SSH version 3.2 in the functionality lab

| 9. Originator Signature/Date | 10. Class | 11. Type: | 12. Need Date: 03/12/03 |
|---|---|---|---|
| Byron V. Peters  /s/  2/10/03 | IN | CCR | |

| 13. Office Manager Signature/Date | 14. Category of Change: | 15. Priority: (If "Emergency" fill in Block 27). |
|---|---|---|
| Carolyn Whitaker  /s/  2/10/03 | Initial ECS Baseline Doc. | Routine |

| 16. Documentation/Drawings Impacted (Review and submit checklist): Provided with release for VATC | 17. Schedule Impact: | 18. CI(s) Affected: |
|---|---|---|

| 19. Release Affected by this Change: 6A | 20. Date due to Customer: | 21. Estimated Cost: None - Under 100K |
|---|---|---|

**22. Source Reference:** ☐NCR (attach)  ☐Action Item  ☐Tech Ref.  ☐GSFC  ☐Other:

**23. Problem: (use additional Sheets if necessary)**
SSHv1 has been replaced by SSHv2 and needs to be removed from each system as it is a potential security vulnerability. SSH 2.4 has recently been revealed to have a potential security hole that should be fixed and the SSH 3.1 replacement has other bug fixes and improvements that should be implemented.

**24. Proposed Solution: (use additional sheets if necessary)**
The IRIX 6.5 and Solaris 8 packages have been generated from F-secure provided files and need to go through the standard testing and implementation regimen. IDG cell unit testing is complete and request that the next step to the functionality lab be approved. The ssh32.tar.gz file will be available on lemmings by the close of business March 5, 2003.

CKSUM 651365494    17972068

**25. Alternate Solution: (use additional sheets if necessary)**
N/A

**26. Consequences if Change(s) are not approved: (use additional sheets if necessary)**
Potential security vulnerabilities could comprimise ECS.

**27. Justification for Emergency (If Block 15 is "Emergency"):**

**28. Site(s) Affected:** ☐EDF  ☐PVC  ☐VATC  ☐EDC  ☐ GSFC  ☐LaRC  ☐NSIDC  ☐SMC  ☐AK  ☐JPL
☐EOC  ☐ IDG Test Cell  ☒Other  functionality lab

| 29. Board Comments: | 30. Work Assigned To: | 31. CCR Closed Date: |
|---|---|---|

| 32. EDF/SCDV CCB Chair (Sign/Date): Kevin Lange  /s/  03/05/03 | Disposition: Approved  App/Com.  Disapproved  Withdraw  Fwd/ESDIS ERB   Fwd/ECS |
|---|---|

| 33. M&O CCB Chair (Sign/Date): | Disposition: Approved  App/Com.  Disapproved  Withdraw  Fwd/ESDIS ERB   Fwd/ECS |
|---|---|

| 34. ECS CCB Chair (Sign/Date): | Disposition: Approved  App/Com.  Disapproved  Withdraw  Fwd/ESDIS ERB   Fwd/ESDIS |
|---|---|

CM01JA00 Revised 8/2/02                                                                 ECS/EDF/SCDV/M&O

# ADDITIONAL SHEET

**CCR #:  02-0092**      **Rev:**        **- Originator:**  Byron V. Peters

**Telephone:**  301/883-4077      **Office:**  2013

**Title of Change:**  Test F-Secure SSH version 3.1 in the IDG cell

SSH 3.1 Preliminary Installation Instructions
Sun installation:
Approximate installation time for average systems administrator per host: 15 minutes
Space required: 75MB for install 0-10MB in operations
No reboot is required.

1. Login to host as root or su to root.
2. Copy the ssh31.tar.gz file to /tmp or other convienient location (net/admin?).
3. Change directory to that location. For example:
        # cd /tmp

4. Explode the file using the command:
        # tar –xvf  ssh31.tar

5. Change directory to the ssh31 install directory using the command:
        # cd ssh31

6. Explode the Sun tarfile using the command:
        # gzip –dc ssh31.sunpkg.tar.gz | tar –xvf -

7. Backup the existing files using the command:
        # cpssh.sh

NOTE:  By default, this puts all the files in /tmp/bssh and creates a tar file /tmp/<hostname>.bssh24.tar
Recommend backing up the tar file to somewhere else in the event of a problem.
8. Verify that the system has the old versions of ssh using the command:
        # pkginfo | grep ssh

If the response is positive, do step 9. Otherwise skip to step 10.
9. Remove the old packages using the command:
        # pkgrm  ssh21
        (answer "y" to any questions asked)
        ...

        # pkgrm  ssh20
        (answer "y"  to any questions asked)
        ...

NOTE: If either package fails to be removed, note the error. If it is a file missing, copy the file from the backup you made in /tmp/bssh
10. Install the new package:
        # pkgadd –d /tmp/ssh31
(answer "y" to any questions asked)
...

11. Edit /etc/ssh2/ssh2_config to uncomment the appropriate lines for
SocksServer (not needed for EDF)
DefaultDomain
12. Edit /etc/ssh2/sshd2_config to uncomment the appropriate line for:
AllowSHosts

13. After editing, restart the daemon using the command:
        # /etc/init.d/sshd2 restart

14. Remove the install directory as required.
        # rm –rf /tmp/ssh31

15. Logoff from root and login as a normal user.

16. Do some quick checks to verify that the install such as:
        % ps –ef | grep sshd2     (should show at least one process spawned by PID 1)
        % ssh2 <differenthost>
        % scp2 localtestfile remotehost:

17. Logoff.

 SGI Installation:
Approximate installation time for average systems administrator per host: 15 minutes
Space required: 75MB for install 0-10MB in operations
No reboot is required.

1. Login to host as root or su to root.
2. Copy the ssh31.tar file to /tmp or other convienient location (net/admin?).
3. Change directory to that  location. For example:
        # cd /tmp

4. Explode the file using the command:
        # tar –xvf ssh31.tar

5. Change directory to the ssh31 install directory using the command:
        # cd ssh31

6. Explode the SGI tarfile using the command:
        # gzip –dc ssh31.sgiinst.tar.gz | tar –xvf -

7. Backup the existing files using the command:
        # cpssh.sh

NOTE:  By default, this puts all the files in /tmp/bssh and creates a tar file /tmp/<hostname>.bssh24.tar
Recommend backing up the tar file to somewhere else in the event of a problem.
8. Verify that the system has the old versions of ssh using the command:
# versions | grep ssh

If the response is positive, do step 9. Otherwise skip to step 10.
9. Remove the old packages using the commands:
        # versions remove ssh21*
        # versions remove ssh20*

 NOTE: If either package fails to be removed, note the error. If it is a file missing, copy the file from the backup you made in /tmp/bssh.
10. Change directory to the sgi install directory
         # cd sgi

NOTE: this should put you in /tmp/ssh31/sgi
11. Install the new package:
        # inst
        inst> from
        inst> .
        inst> step
        (make sure there are "i"s next to each of the fssh31 and tcpw76 modules)
         inst> go
        (answer yes to any questions asked. There should be no conflicts...)
        inst> quit


12. Edit /etc/ssh2/ssh2_config to uncomment the appropriate lines for
SocksServer (not needed for EDF)
DefaultDomain

13. Edit /etc/ssh2/sshd2_config to uncomment the appropriate line for:
AllowSHosts

14. Remove the install directory as required.
        # rm –rf /tmp/ssh31

15. Logoff as root and login as a normal user.
16. Do some quick checks to verify that the install such as:
      % ps –ef | grep sshd2    (should show at least one process spawned by PID 1)
      % ssh2 <differenthost>
      % scp2 localtestfile remotehost:

17. Logoff

Utilities Installation
Not required. Using utils in /usr/local/bin to start with.